

### Abstract

A method for producing a crystal of a fluoride wherein a single crystal of a fluoride is produced by pulling down the single crystal from a crucible for holding a melt of a raw material for the crystal having a hole in the bottom portion thereof, characterized in that the plane at the exit portion of the above hole has a desired shape of a plane. A crystal of a fluoride having a shape according to the use of the fluoride can be grown by using carbon, platinum or iridium being a material capable of corresponding to a fluoride and designing the shape of a crucible taking the wettability of the fluoride with each of the materials into consideration. The above method can be employed for producing a crystal of a fluoride having an arbitrary shape.